

08/09/00



JC845 U.S. PTO

08-11-00

A

JC864 U.S. PTO

09/635506



08/09/00

Please type a plus sign (+) inside this box [+]

PTO/SB/05 (12/97)

Approved for use through 09/30/00. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 004704.P004Total Pages 3First Named Inventor or Application Identifier Faber et al.Express Mail Label No. EL639015489US

ADDRESS TO: Assistant Commissioner for Patents
 Box Patent Application
 Washington, D. C. 20231

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. XX Fee Transmittal Form
(Submit an original, and a duplicate for fee processing)
2. XX Specification (Total Pages 54)
(preferred arrangement set forth below)
 - Descriptive Title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claims
 - Abstract of the Disclosure
3. X Drawings(s) (35 USC 113) (Total Sheets 14)
4. X Oath or Declaration (Total Pages 5)
 - a. X Newly Executed (Original or Copy)
 - b. Copy from a Prior Application (37 CFR 1.63(d))
(for Continuation/Divisional with Box 17 completed) (**Note Box 5 below**)
 - i. DELETIONS OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
5. Incorporation By Reference (useable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. Microfiche Computer Program (Appendix)

09635506-080900

7. _____ Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
a. _____ Computer Readable Copy
b. _____ Paper Copy (identical to computer copy)
c. _____ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. X Assignment Papers (cover sheet & documents(s))
9. _____ a. 37 CFR 3.73(b) Statement (where there is an assignee)
_____ b. Power of Attorney
10. _____ English Translation Document (if applicable)
11. _____ a. Information Disclosure Statement (IDS)/PTO-1449
_____ b. Copies of IDS Citations
12. _____ Preliminary Amendment
13. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
14. _____ a. Small Entity Statement(s)
_____ b. Statement filed in prior application, Status still proper and desired
15. _____ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. X Other: Express Mail Certification

17. **If a CONTINUING APPLICATION**, check appropriate box and supply the requisite information:
____ Continuation ____ Divisional ____ Continuation-in-part (CIP)
of prior application No: ____

18. Correspondence Address

____ Customer Number or Bar Code Label _____
(Insert Customer No. or Attach Bar Code Label here)
or

 X Correspondence Address Below

NAME Glenn E. Von Tersch (Reg. No. #41,364)
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

ADDRESS 12400 Wilshire Boulevard
Seventh Floor

CITY Los Angeles STATE California ZIP CODE 90025-1026

Country U.S.A. TELEPHONE (408) 720-8598 FAX (408) 720-9397

Respectfully submitted,

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

Date: August 9, 2000

By Glenn E. Von Tersch
Glenn E. Von Tersch

12400 Wilshire Boulevard
Seventh Floor
Los Angeles, California 90025
(408) 720-8598

Reg. No.: 41,364

"Express Mail" mailing label number: EL639015489US

Date of Deposit: August 9, 2000

I hereby certify that I am causing this paper or fee to be deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and that this paper or fee has been addressed to the Assistant Commissioner for Patents, Washington, D. C. 20231

Carrie Boccaccini

(Typed or printed name of person mailing paper or fee)

Carrie Boccaccini
(Signature of person mailing paper or fee)

8-9-2000

(Date signed)

Serial/Patent No.: **** Filing/Issue Date: Herewith
Client: Keen.com, Inc.
Title: METHOD AND APPARATUS FOR PROVIDING GROUP CALLS VIA THE
INTERNET

BSTZ File No.: 004704.P004

Date Mailed: August 9, 2000

Atty/Secty Initials: GEV/cab

Docket Due Date: ****

The following has been received in the U.S. Patent & Trademark Office on the date stamped hereon:

- ☐ Amendment/Response (____ pgs.)
- ☐ Appeal Brief (____ pgs.) (in triplicate)
- ☒ Application - Utility (54 pgs., with cover and abstract)
- ☐ Application - Rule 1.53(b) Continuation (____ pgs.)
- ☐ Application - Rule 1.53(b) Divisional (____ pgs.)
- ☐ Application - Rule 1.53(b) CIP (____ pgs.)
- ☐ Application - Rule 1.53(d) CPA Transmittal (____ pgs.)
- ☐ Application - Design (____ pgs.)
- ☐ Application - PCT (____ pgs.)
- ☐ Application - Provisional (____ pgs.)
- ☒ Assignment and Cover Sheet
- ☒ Certificate of Mailing
- ☒ Declaration & POA (5 pgs.) (signed)
- ☐ Disclosure Docs & Orig & Copy of Inventor's Signed Letter (____ pgs.)
- ☒ Drawings: 14 # of sheets includes 14 figures

- ☒ Express Mail No.: EL639015489US ☒ Check No. 36929
- ☐ _____ Month(s) Extension of Time Amt: \$2254.00
- ☐ Information Disclosure Statement & PTO 144 (____ pgs.) ☐ Check No. _____
- ☐ Issue Fee Transmittal Amt: _____
- ☐ Notice of Appeal
- ☐ Petition for Extension of Time
- ☐ Petition for _____
- ☒ Postcard
- ☐ Power of Attorney (____ pgs.)
- ☐ Preliminary Amendment (____ pgs.)
- ☐ Reply Brief (____ pgs.)
- ☐ Response to Notice of Missing Parts
- ☐ Small Entity Declaration for Indep. Inventor/Small Business
- ☒ Transmittal Letter, in duplicate
- ☒ Fee Transmittal, in duplicate

☐ Other: _____

UNITED STATES PATENT APPLICATION

FOR

METHOD AND APPRATUS FOR PROVIDING GROUP CALLS VIA THE INTERNET

Inventors:

Scott Faber

Sean Van der Linden

Prepared by:

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

12400 Wilshire Boulevard

Seventh Floor

Los Angeles, California 90025-1026

(408) 720-8598

Attorney's Docket No: 004704.P004

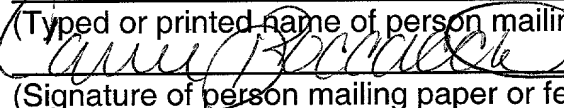
"Express Mail" mailing label number: EL639015489US

Date of Deposit: August 9, 2000

I hereby certify that I am causing this paper or fee to be deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and that this paper or fee has been addressed to the Assistant Commissioner for Patents, Washington, D. C. 20231

Carrie Boccaccini

(Typed or printed name of person mailing paper or fee)


(Signature of person mailing paper or fee)

8-9-2000

(Date signed)

006080" 90332960

METHOD AND APPRATUS FOR PROVIDING GROUP CALLS VIA THE INTERNET

This application is related to co-pending application U.S. Application No. 09/414,710 filed on October 8, 1999 and entitled "System for providing services in real-time over the internet," the entire contents of which are hereby incorporated by reference herein.

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates generally to electronic commerce using digital and analog networks. More specifically, the present invention relates to a network application for conducting group call communication sessions between customers and a service provider.

Description of the Related Art

Customers interested in acquiring services must first identify the service provider who is capable of providing the required services. At present, this usually means perusing a telephone directory, which can become frustrating and time-consuming if the service providers telephoned are not immediately available. A phone book (whether a bound paper book or an electronic directory) is also not very effective if the service provider's business category is not known.

Over the years, a number of systems have been developed that partially address this problem. In particular, these include systems that attempt to match potential

customers with potential service providers. They range from free bulletin-board-style Internet web sites to sophisticated Internet-based consulting services.

Once a service provider has been identified and has agreed to provide the requested services to the user, the service provider may wish to charge the user for providing the requested services. In many cases, the service provider will charge the user based upon the time it takes to provide the requested services. Some devices exist to automate the billing of time for services rendered. 1-900 telephone numbers, for instance, automatically calculate the time that services are rendered through the telephone and bill the customer accordingly.

However, available systems are not able to connect service providers with many buyers at the same time. Some services -- such as tutoring or celebrity events -- can be administered to many buyers at once. Teachers, for instance, often charge their students by the hour to attend a seminar. Currently, however, there is no way for a teacher using an Internet system to indicate that services are now in session and that students can each join the interactive conference and be charged on a per-time basis.

Current systems that attempt to connect service providers with many buyers at once are based largely on the broadcast model of service providing. For instance, a speech may be broadcast on a certain channel at a specific time. All buyers who would like to listen to this speech can pay a fee and gain access to the channel for an amount of time. This system, however, has rigidities that prevent its effective use. Firstly, a broadcast is a one-way transmission. Many services -- such as tutoring or celebrity events - require two-way communication in real time. Secondly, a service provider

004704.P004

cannot easily indicate to an audience whether the broadcast service is on or off;
broadcasts must therefore be rigidly scheduled to be on at definite times.

SUMMARY OF THE INVENTION

A method and apparatus for implementing group calling is disclosed. In one embodiment, the method includes displaying a service provider, a service provider rate for communicating with the service provider, and a real-time indication of whether the service provider is available. The method further includes receiving a request from a first customer to communicate with the service provider and connecting the first customer to the service provider through a link capable of transmitting from the service provider to the first customer. The method also further includes receiving a request from a second customer to communicate with the service provider and connecting the second customer to the service provider through a link capable of transmitting from the service provider to the second customer while the first customer is coupled to the service provider. The method also includes billing the first customer automatically based on the time during which the link to the first customer is maintained; and billing the second customer automatically based on the time during which the link to the second customer is maintained. The method may further include connecting the service provider to a plurality of customers.

In an alternative embodiment, a system may include logic blocks suitable for performing the method described above or for otherwise implementing a system for connecting a plurality of customers to a service provider. Furthermore, such a system may be suitable for interaction with a moderator and/or an intermediary. Moreover, such a system may include a communications interface and a controller computer.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention is illustrated by way of example and not limitation in the accompanying figures.

Figure 1 illustrates a system for identifying information providers and connecting
5 customers with information providers in accordance with one embodiment of the invention.

Figure 2 illustrates an alternative embodiment of the system for identifying information providers and connecting customers with information providers.

Figure 3 illustrates one embodiment of an information provider's listing page on
10 which potential users can read a description of the information provider and see a rate the information provider charges to communicate.

Figure 4 illustrates one embodiment of a web page shown to a user who has successfully requested to listen or talk to a service provider.

Figure 5 illustrates an embodiment of a process of participating in a group call.

Figure 6 illustrates a graphical user interface suitable for use by a moderator of a
15 group call.

Figure 7a illustrates an embodiment of a process of participating in a group call from a customer's point of view.

Figure 7b illustrates an alternate embodiment of a process of participating in a
20 group call from a customer's point of view.

Figure 8 illustrates an embodiment of a process of participating in a group call from a moderator's point of view.

Figure 9 illustrates an alternate embodiment of a process of participating in a group call from a moderator's point of view.

Figure 10 illustrates another alternate embodiment of a process of participating in a group call from a moderator's point of view.

5 Figure 11 illustrates relationships in one embodiment of a method or apparatus for a group call.

Figure 12 illustrates a block diagram of an embodiment of a system.

Figure 13 illustrates an embodiment of the states a customer enters while interacting in a group call.

DETAILED DESCRIPTION

A method and apparatus for implementing group calls is described. In the following description, for purposes of explanation, numerous specific details are set forth in order to provide a thorough understanding of the invention. It will be apparent, however, to one skilled in the art that the invention can be practiced without these specific details. In other instances, structures and devices are shown in block diagram form in order to avoid obscuring the invention.

Reference in the specification to “one embodiment” or “an embodiment” means that a particular feature, structure, or characteristic described in connection with the embodiment is included in at least one embodiment of the invention. The appearances of the phrase “in one embodiment” in various places in the specification are not necessarily all referring to the same embodiment, nor are separate or alternative embodiments mutually exclusive of other embodiments.

In one embodiment, a system for group calling allows providers of services (service providers or information providers) to communicate and sell their services to many buyers at once in a virtual conference. An embodiment may enable the provider to indicate to an audience of buyers whether services are available or unavailable at the current time. Buyers can read a description of the service provider and the price to take part in the conference. If services are currently available, buyers can join the conference, and in doing so, will be connected with a one-way or two-way communications link and be automatically charged the fees for the services.

One embodiment includes an Internet web site as part of the delivery mechanism of the invention. Customers who would like to speak with a particular

service provider can see whether that provider is immediately available or not. If available, the buyer can be connected to the provider with a two-way communications link in real time. If the service provider is already in session with a first buyer, the second buyer can join the conference and be connected with a two-way communications link with all members of the conference. The buyer will automatically be charged the fees for taking part in the conference.

Another embodiment enables the service provider to speak to many buyers at once through the guidance of a moderator. If a buyer chooses to join a conference and communicate with the speaker, the moderator can decide whether to give the buyer listening and speaking privileges or just listening privileges. The buyer can in turn be charged different fees depending on which privileges are granted. The moderator can also turn off any buyer's speaking privileges or remove a buyer from the conference entirely.

Figure 1 shows one embodiment of a system in which the systems and methods of the present invention may be incorporated. User computers ("customer computers") 100 and information provider computers ("service provider computers") 200 are coupled through a network 500 (such as the Internet) to a host computer or web server ("controller computer") 300. Persons skilled in the art will recognize that the controller computer 300 may consist of more than one computer working together to provide the controller computer functions described herein. The users (customers) and information providers (service providers) each have telephones 400 that are coupled to the telephone network 600. In Figure 1, the computer network 500 and telephone network

600 are shown as two separate entities, though persons skilled in the art will realize that they can overlap, as illustrated in Figure 2 for example.

The controller computer 300 has the functionality of a web server, capable of interacting dynamically via the service provider computers 200 and the customer computers 100 with service providers and customers, respectively. In addition to web server operation, the controller computer 300 is linked to a telephone interface 700 that enables the controller computer 300 to set up, initiate, confirm, and track conversations between the customers and the service providers. The controller computer 300 has the ability to establish a real-time communications connection between service providers and customers for the purpose of conveying information in real-time in an interactive manner.

In accordance with the embodiment shown in Figure 1, the customer computers 100 and the service provider computers 200 are connected to the controller computer 300 through the network 500. Customers and service providers use their computers to connect to the Internet network 500. Once a connection has been established, service providers and customers will enter the URL, or Internet address, of the controller computer 300, and a logic unit within the controller computer establishes a computer connection with the customer computer 100 and the service provider computer 200. In one embodiment, after the computer connection has been established between the controller computer 300 and the service provider and customer computers, 200 and 100, respectively, a logic unit within the controller computer presents a web page on the service provider and customer computers.

Typically, customers and service providers register before customers can purchase services or information and before service providers can offer their services or information through the web site. During registration, the customers and the service providers are requested to submit certain information, such as a username and password. Customers may be requested to submit credit card or other financial information. Service providers may or may not be requested to submit credit card or other financial information. Once the requested information has been submitted, the data is stored in the database 310 in a service provider account set up for the service provider and in a user account set up for the customer.

A logic unit within the controller computer 300 may present a web page on the customer computer 100 and the service provider computer 200 through which the logic unit prompts the customer and the service provider to submit the requested registration information. The logic unit is linked with the database 310 and so automatically sets up the service provider account and the user account and automatically stores the submitted registration information in the appropriate accounts on the database 310.

Service providers typically submit a description or a listing for each service they will provide through the web site. After the description or listing has been stored by the controller computer 300, the service described may be offered to all of the users who browse the web site. Access to the web site may be established as described above, with the customer using a user computer ("customer computer") 100 to connect to a network 500 and then entering a URL suitable for connecting or coupling to the controller computer 300. A logic unit within the controller computer 300 then establishes a computer connection with the customer computer 100.

After the computer connection has been established, in one embodiment customers will have the option of executing a keyword search for service providers. The keyword search can be executed from a web page presented by a logic unit of the controller computer 300 on the customer computer 100. A keyword search typically consists of scanning a database for words that match the keywords entered. In this embodiment, the keyword search will be executed against the stored descriptions and listing data. In one embodiment, customers will view a list of service providers matching the keyword search criteria on a web page presented by the logic unit on the customer computer. Customers will have the option of viewing the service providers listed according to price, availability, or customer evaluations in either ascending or descending order, though the service providers can be listed in any number of ways. As an alternative to a keyword search, customers can select a category to view a predetermined list of service providers.

In one embodiment, a logic unit within the systems presents, in response to a customer selection of a service provider from the list, a listing page that contains additional information about the selected service provider and the selected information service. Figure 3 illustrates one embodiment of a listing page that provides more detailed information about a service provider that goes by the name of Jim . The listing page 1000 shown in Figure 3 provides a brief description of the information services provided 1010 and may also include rating information 1020, a picture of the service provider 1030, a rate or price per minute 1040, as well as other information that the potential customer may find helpful such as the educational background or other credentials of the service provider 1045. The listing page 1000 includes an icon 1050

indicating that this service provider is available at this very moment. The icon 1050 may also include accompanying hyperlinks that enable the customer to call or email 1055 the service provider. It will be appreciated that the icon 1050 may also indicate the service provider is not available when such an indication is appropriate. The

5 information provided in a listing page may be conveyed in other forms, e.g., instead of a picture or photo 1030 the service provider may choose to be represented with an avatar or other information-rich graphic, and may include other types of information in addition or instead of the information shown in the embodiment of Figure 3.

When a customer decides to receive information or services from the service 10 provider, the customer may request to have a real-time communications connection established with the service provider. For example, from the listing page illustrated in Figure 3, a customer may click on the "Call Now" hyperlink 1050 to send such a request and, in response, a logic unit within the system attempts to establish a real-time communications connection between the customer and the service provider.

15 In one embodiment, a logic computer within the system presents a web page, such as the one depicted in Figure 4, to the customer after receiving the request to communicate with the service provider. The web page 1500 informs the customer that the real-time communications connection or link is being established and may, if necessary, provide instructions to establish the communications connection. Note that 20 communication in this context may have a one-way or two-way form, such that communication may be limited to the customer listening to the service provider, or it may be a two-way communication between the customer and the service provider.

Furthermore, note that the link or connection may be established over a variety of media or combinations of media as described elsewhere in the present application.

An illustration of an embodiment of participation in a group call is presented in Figure 5. At block 1210, the customer selects a service provider who the customer wishes to communicate with. At block 1220, a communications link is set up between the customer and the service provider. This communications link may allow for one-way or two-way communications, and this may be dependent on what the customer and service provider desire. In the present illustration, the communications link is initially a one-way link. At block 1230, the customer decides to ask a question of the service provider, and thus requests a two-way link. The two-way link is established or enabled at block 1240, and at block 1250, the customer asks the question.

It will be appreciated that asking the question may be more involved than a simple question, and may require a dialog, or that asking a question may represent conversing with a service provider without following a question-and-answer paradigm. Likewise, it will be appreciated that in some embodiments, the initial link established between the customer and the service provider may be a two-way communications link which allows for two-way communications without a request for such two-way communications. Furthermore, it will be appreciated that the management of multiple customers in a group call may require attention that would detract from provision of services by a service provider, such that an intermediary or moderator may be useful for purposes of managing interactions with customers.

Figure 6 illustrates an embodiment of a graphical user interface suitable for use by a moderator of a group call, who may have discretion to perform such functions as:

add listeners, change listeners to questioners or conversers, or remove participants (listeners, questioners and conversers). Window 1610 includes a questioner section and a listener section. List 1620 displays a list of callers who are waiting to ask questions of the service provider, and further illustrated are the first two questioners who are currently asking questions of the service provider. The remaining questioners are communicating with the service provider, but since they are not selected to ask questions, they cannot speak to the service provider. Selected questioner box 1625 illustrates the selected questioner, in this example the third questioner. For the selected questioner, three buttons allow for changes in the status of the questioners. Button 1640 allows for changing a questioner to a listener. Button 1650 allows for hearing a question from a questioner, essentially moving the questioner to an in conference state or out of a queue of waiting questioners. Button 1645 allows for ending a questioner's call, and may be invoked due to a questioner having run out of allotted time or credit, or for disciplinary reasons and the like. By selecting each of the questioners within the list 1620, changes can be effected for each questioner.

In one embodiment, in the listener section, list 1630 displays all of the listeners to the group call. Each of the listeners communicate with the service provider, but can only hear what the service provider is saying, they cannot interact directly with the service provider. Selected listener box 1635 illustrates the selected listener, in this example listener 'User M.' Two buttons allow for changes to the status of the selected listener. Button 1665 allows for ending the listener's call, for example when the listener runs out of credit. Button 1660 allows for changing the selected listener to a questioner, for a fee or an increased rate of payment. Additionally, button 1670 allows

for ending the group call, or terminating the session in which the service provider is providing services or speaking to the group.

Participation in a group call necessarily implies a process for multiple customers, and allowing for or managing such a session may require restrictions on the interactions between the customers and the service provider. In a classroom setting, a service provider may lecture, and accept questions based on the service providers wishes or decisions of a moderator. Similarly, answering a question asked by the service provider may be viewed as asking a question, and any action allowing for communication from the customers to the service provider may thus be treated as analogous to asking a question of the service provider.

Note that the roles of the moderator and any intermediary may be automated and performed by logic blocks such as software executed by a processor or portions of a device or machine or circuitry. The examples discussed previously with respect to a system or apparatus for connecting customers and service providers may, in one embodiment, perform these roles. Furthermore, the roles of moderator and intermediary may be combined, such that an intermediary performs the role of moderator. Likewise, the moderator and the intermediary may interact, such that one takes direction or instructions from the other.

Figure 7a illustrates an embodiment of a process of participating in a group call as perceived by a customer. At block 1710, the customer selects a service provider from a set of service providers, such as a set of service providers viewable on a website. At block 1720, the customer requests entry into a session with the service provider. This may involve initiation of a session, joining a session in progress, or

joining a regularly scheduled session which has yet to begin for example. At block 1730, the customer enters the session, thereby gaining access to the information being transmitted as part of the session. In one embodiment, the session may be entertainment, informative, or otherwise allow for at least one-way transmission of information.

At block 1740, the customer requests an opportunity to ask a question, possibly in exchange for a fee or surrender of some amount of credit. At block 1750, the customer receives permission to ask the question from a moderator or intermediary such as an automated moderating program or a human moderator. Receiving permission, in some embodiments, may also involve a temporary enablement of transmission from the customer to the service provider, in either a half-duplex or full-duplex manner. Any change from a listener to a questioner or converser may include further instructions delivered on a webpage similar to that illustrated in Figure 4, or may include instructions delivered over the telephone, for example.

At block 1760, the customer asks the question, and presumably receives some form of answer or acknowledgment from the service provider. This may satisfy the customer. However, at block 1765, the customer makes a decision about whether to ask a follow-up question, which, in one embodiment, requires a separate fee or surrender of credit. If a follow-up question is desired, the process proceeds to block 1750. If a follow-up question is not desired, the process proceeds to block 1770, and the customer continues to communicate with the service provider by listening to the session. The process also includes block 1775, in which the customer decides whether to continue listening to the session, although this may be embodied in the act of

listening to the session. Should the customer decide not to listen to the session, at block 1780 the customer makes a choice between asking another question and thus proceeding to block 1740, or leaving the session and thus proceeding to block 1790. In one embodiment, the customer is charged or surrenders credit on an ongoing basis at a rate per unit time, such as a rate per minute, and the customer may involuntarily leave the session when the customer's credit is exhausted.

Figure 7b illustrates an alternate embodiment of a process of participating in a group call as perceived by a customer. At block 1910, the customer finds an expert or service provider whose session the customer wishes to enter. At block 1920, the customer requests entry to the session, and at block 1925, the customer awaits entry to the session. Entry to the session may be carried out as described earlier with respect to actual connection to an expert or service provider. Upon connecting to the session, the customer communicates with the service provider by listening to the session at block 1970. It will be appreciated that a session may use a medium other than sound, such that listening or communicating may represent watching a video presentation or experiencing some form of multimedia presentation, and that a customer may pay for the privilege of listening, watching, or otherwise experiencing a presentation. At block 1980, a decision is made as to whether to continue listening to the session, and this either results in a return to block 1970 or progression to block 1990.

At block 1990, a decision is made as to whether to converse with the service provider. This may require payment at a higher rate or of a lump sum. Choosing not to converse and not to listen implies progression to block 1995 and quitting the session. Choosing to converse results in sending a request to converse at block 1930, which

may be fielded by the service provider or by some intermediary or moderator. At block 1935 the customer awaits permission to converse (and presumably continues to listen, although this need not be true). At block 1940, the customer converses with the service provider, either for a predetermined amount of time or until an event causes a decision to end the conversation at block 1950. Such events may include a choice by the customer or depletion of the customer's credit to levels too low to allow continued conversation. At block 1960, a decision is made as to whether the customer wishes to listen to more of the session at block 1970 or to quit the session at block 1995.

Figure 8 illustrates an embodiment of a process of participating in a group call from a moderator's point of view. Note that the moderator may be a person interacting with a group of customers and a service provider, the service provider, or some other form of intermediary such as an automated program or device. In one embodiment, the intermediary is a controller computer such as was described with respect to Figures 1 and 2, and the moderator is a person who is in communication with the controller computer. At block 2010, the moderator receives a request to enter a session from a customer. At block 2020, the customer is added to the session by the moderator, which may involve connecting the customer to the session in a manner such as that described with respect to connecting a customer a service provider. At block 2030, a request to ask a question from a customer connected to the session is received. Three options are available, the moderator may queue the question (2040), grant the opportunity to ask the question (2045) or deny the opportunity to ask the question (2050).

After adding a customer or handling a request to ask a question, the moderator may either remove a questioner from the session (2060), remove a listener (2065) or

wait and monitor the session (2070). From block 2070, the moderator may move to block 2010 (receiving another request to enter), block 2030 (receiving another request to ask a question), block 2060 (removing a questioner) or block 2065 (removing a listener). Likewise, the moderator may move to block 2080 and terminate the session as appropriate. It will be appreciated that if questions are queued (as per block 2040), the queued questions may periodically generate requests to ask questions (as per block 2030), thus resulting in either maintenance or advancing of the queue.

Figure 9 illustrates an alternate embodiment of a process of participating in a group call from a moderator's point of view. At block 2110, the moderator receives a request to enter a session from a customer. At block 2120, the customer is added to the session by the moderator, which may involve connecting the customer to the session in a manner such as that previously described. At block 2130, a request to converse with the service provider from a customer connected to the session is received. Three options are available, the moderator may queue the request (2140), grant the opportunity to converse (2145) or deny the opportunity to converse (2150).

After adding a customer or handling a request to converse, the moderator may either remove a questioner (someone conversing with the service provider) from the session (2170) or remove a listener (2180). Additionally, the moderator may receive a request by a questioner to listen (block 2160) and convert the questioner to a listener (2165) or wait and monitor the session (2190). From block 2190, the moderator may move to block 2110 (receiving another request to listen), block 2130 (receiving another request to converse), block 2165 (converting to a listener), block 2170 (removing a questioner) or block 2180 (removing a listener). Likewise, the moderator may move to

block 2195 and terminate the session as appropriate. It will be appreciated that if requests to converse are queued (as per block 2140), the queued conversation participants may periodically generate requests to converse (as per block 2130), thus resulting in either maintenance or advancing of the queue.

5 Figure 10 illustrates another alternate embodiment of a process of participating in a group call from a moderator's point of view. This embodiment illustrates what may be the essentially parallel nature of the moderator's role in some embodiments. This embodiment illustrates that the moderator may have control over initiation of the session at block 2105 prior to addition of any customers, and illustrates that a
10 participant's exit at block 2185 (either a questioner or listener) may result in removal of the participant. Note that the participant may choose to exit or may exit involuntarily.

15 Figure 11 illustrates relationships in one embodiment of a method or apparatus for a group call. The controller computer 2210 may be the intermediary in one embodiment. Coupled to the controller computer 2210 are the service provider 2220, a set of customers 2240 (such as a first customer and a second customer) and possibly a moderator 2230. The moderator 2230 or the service provider 2220 may provide instructions to the computer 2210 to connect, disconnect, or change the status of customers 2240 for a given session. The links between the components of Figure 11 may be formed through use of the internet, telephony, optical, electromagnetic, or other
20 electrical and/or mechanical means.

A system may provide all or some of the above group calling features using other communications means, such as via e-mail, or over a telephone network, a computer network, a satellite network, a wireless communications network, a direct TV network,

etc. For example, the customer may communicate (i.e.listen) over a telephone connection to the group call. Additionally, the system may receive a request to talk or converse over the telephone connection via the telephone keypad or with voice-recognition software. Similarly, a group calling method is not limited to the systems described above and may be implemented using other communications means.

In particular, a system for implementing group calling and/or a method of implementing group calling may involve a processor executing instructions. Such instructions, when executed by the processor, may cause the processor to perform a method as illustrated elsewhere in this document. Such instructions may be embodied in a machine-readable medium, such as a persistent storage medium or other medium coupled to or accessible by the processor. The medium may be an electronic medium such as RAM or a variant of ROM, it may be a magnetic medium such as a disk or tape, an optical medium such as a CD-ROM, a carrier wave or other transmissive medium, or other media as appropriate. Furthermore, the instructions may be embodied in multiple media, either of a uniform type of medium or a variety of types of media.

A block diagram of an embodiment of a system is illustrated in Figure 12. Such a block diagram may be implemented as instructions in a machine-readable medium (or media) or as a set of logic blocks. Furthermore, the breakdown of portions of the system illustrated is not necessarily more or less suitable than a different division of portions of the system in which blocks are combined, subdivided or otherwise differently configured. Service provider database 3000 includes information about a set of service providers and is accessible by the system. Service provider database 3000 may be accessible from a persistent storage medium for example. Service provider display

3110 may access the service provider database 3000 and display information stored therein in a manner suitable for communication to a user of the system. Selection receipt 3120 may receive from such a user a selection of a particular service provider from the service provider database 3120. Connection management 3130 may connect
5 and/or disconnect a user or customer to or from a service provider in a manner described previously. Billing management 3140 may manage billing to or debiting credit from a customer in relation to the customer's connection with a service provider.

In one embodiment, moderation 3150 may perform moderation functions such as selecting which customers may converse or ask a question of a service provider and
10 which customers may be disconnected from the service provider. In an alternate embodiment, moderation 3150 may be an interface between a moderator external to the system (whether automated or not) and may transmit instructions and data from and to the moderator.

Figure 13 illustrates an embodiment of the states a customer enters while
15 interacting in a group call. In disconnected state 3210, the customer is not connected to the group call. From that state, the customer may transition to listening state 3220, in which the customer may listen to the service provider. Likewise, from the disconnected state 3210, the customer may transition to the conversing or talking state 3230 in which the customer may transmit questions or otherwise converse with the
20 service provider. Similarly, transitions between the listening state 3220 and the conversing or talking state 3230 may occur.

In one embodiment, transitions to the listening state 3220 involve initiation or preservation of a link capable of transmitting from the service provider to the customer.

Similarly, in one embodiment, transitions to the conversing or talking state 3230 may involve establishment or maintenance of a two-way communications link, while transitions to the disconnected state 3210 may involve severing or disconnecting such links. Alternately, an embodiment may involve two-way links for both the listening state 3220 and the conversing or talking state 3230, and a further alternative may involve inactivating rather than disconnecting a link when in the disconnected state 3210.

As will be appreciated, in some embodiments, state transitions and corresponding changes in connections may be managed by a moderator, and performed by a system or other intermediary which may include the moderator or act in response to the moderator.

The systems and methods have been described above in terms of a "service-marketplace" system in which customers are waiting to receive information services in real-time from a service provider over a communications network. Such a system is described in detail in co-pending U.S. Application No. 09/414,710, which is incorporated herein by reference. When implemented with such systems, the group call functions described above may be performed by the controller computer 300 (see Figure 1 and Figure 2), such as performing mediation services or providing communications links. However, it should be noted the systems and methods may be incorporated into other systems in which users communicate with a service provider in a group setting.

Example

A nationally renowned scholar of the French language - named Pierre - provides language tutoring through a "service-marketplace" web site. Buyers who are interested

in learning French can read about Pierre's background at the web site. They can read what other buyers have said about his language-tutoring services. They can see a price per minute - 50 cents - that must be remitted in order to be connected with Pierre. They can also see an icon on the web site that indicates whether Pierre is available to provide his services at this very moment. When Pierre is available to provide services, he calls an 800 number and presses the "1" digit to indicate that his services are now in session. This causes the icon on the web site to indicate to all potential buyers that Pierre is now available.

A buyer named Jeanne is a student of French and has a question about word usage that she would like to ask Pierre. She goes to the web site and sees whether Pierre is available. The icon indicates that he is indeed available. Moreover, he is currently in session with four other students. Jeanne would like to join the conference and therefore clicks on the "Join Now" button. Her telephone rings. She is instantly connected into the conference. She introduces herself and joins the discussion. All five members of the conference can converse with each other in a group session. Jeanne is automatically billed 50 cents per minute for taking part in the conference.

Pierre's French tutoring service soon becomes extremely popular. Students from around the country join the conference, and soon the on-line discussion has more than fifty participants. A group conversation with so many participants becomes unwieldy for Pierre, so he introduces a moderator to control the discussion.

The moderator informs Jeanne and the rest of the participants that not everyone will be able to speak at once. All participants will be able to listen to the conference, but

the moderator will control who in the audience will be allowed to speak and ask a question. In fact, asking a question in this conference will cost an additional five dollars.

In order to control the discussion in this way, the moderator uses an interface that indicates a list of the buyers in the conference. The moderator can control whether
5 a buyer has listening privileges or both listening and speaking privileges. The moderator can also remove any buyer from the conference completely.

Jeanne would like to ask her question about word usage, so she clicks on the "Ask a Question" button on the web site. The moderator grants Jeanne speaking privileges so that she may ask her question of Pierre. The rest of the conference can
10 listen to this discussion. All participants are being charged 50 cents per minute for taking part in the conference. Jeanne is charged an additional five dollars for asking her question.

When Pierre no longer wishes to entertain questions, he informs the participants that he would like to end the conference. He hangs up his phone. He then calls the
15 800-number to inform the web site that he will no longer be providing services. The icon on the web site now indicates "Not Available," and students are no longer able to connect to Pierre.

At the end of the month, Pierre is sent a check in the mail for all the fees collected by the conferencing system.

20 In the foregoing detailed description, the method and apparatus of the present invention has been described with reference to specific exemplary embodiments thereof. It will, however, be evident that various modifications and changes may be made thereto without departing from the broader spirit and scope of the present

invention. In particular, the separate blocks of the various block diagrams represent functional blocks of methods or apparatuses and are not necessarily indicative of physical or logical separations or of an order of operation inherent in the spirit and scope of the present invention. For example, the various blocks of Figure 1 may be
5 integrated into components, or may be subdivided into components. Moreover, the blocks of Figure 7a, for example, represent portions of a method which, in some embodiments, may be reordered or may be organized in parallel rather than in a linear or step-wise fashion. The present specification and Figures are accordingly to be regarded as illustrative rather than restrictive.

CLAIMS

What is claimed is:

1 1. A method comprising:
2 displaying a service provider and a service provider rate for communicating with
3 the service provider and a real-time indication of whether the service provider is
4 available;
5 receiving a request from a first customer to communicate with the service
6 provider;
7 connecting the first customer to the service provider through a link capable of
8 transmitting from the service provider to the first customer;
9 receiving a request from a second customer to communicate with the service
10 provider; and
11 connecting the second customer to the service provider through a link capable of
12 transmitting from the service provider to the second customer while the first customer is
13 coupled to the service provider;
14 billing the first customer automatically based on the time during which the link to
15 the first customer is maintained; and
16 billing the second customer automatically based on the time during which the link
17 to the second customer is maintained.

2. The method of claim 1 wherein:

1 the link from the service provider to the first customer is implemented through
2 use of telephone connections.

1 3. The method of claim 1 wherein:

2 the link from the service provider to the first customer is implemented through
3 use of the internet.

1 4. The method of claim 1 wherein:

2 the link from the service provider to the first customer is configured to transmit
3 from the first customer to the service provider.

1 5. The method of claim 1 wherein:

2 the first customer paying an intermediary and the second customer paying the
3 intermediary, the intermediary receiving the requests, the intermediary connecting the
4 service provider to the first customer, the intermediary connecting the service provider
5 to the second customer, the intermediary performing the billing.

1 6. The method of claim 5 wherein:
2 the intermediary having a set of service providers including the service provider;
3 and
4 the intermediary performing the providing in response to a choice by the first
5 customer of the service provider from the set of service providers.

1 7. The method of claim 6 wherein:
2 the link from the service provider to the first customer is implemented through
3 use of the internet or through use of telephone connections.

1 8. The method of claim 6 wherein:
2 the link from the service provider to the first customer is configured to transmit
3 from the first customer to the service provider.

1 9. The method of claim 8 further comprising:
2 moderating transmissions from the service provider and transmissions from the
3 first customer.

1 10. The method of claim 9 wherein:
2 the moderating is performed by the service provider.

1 11. The method of claim 9 wherein:
2 the moderating is performed by a moderator.

1 12. The method of claim 11 further comprising:
2 the moderator receiving a request from the first customer to transmit to the
3 service provider.

1 13. The method of claim 12 further comprising:
2 the moderator granting the request from the first customer to transmit to the
3 service provider upon payment by the first customer to the intermediary.

1 14. The method of claim 12 wherein:
2 the request from the first customer to transmit to the service provider pertains to
3 conversing with the service provider.

1 15. The method of claim 14 further comprising:
2 permitting the first customer to converse with the service provider; and
3 receiving payment from the first customer based on a duration of the conversing.

1 16. The method of claim 14 further comprising:
2 receiving a request from the second customer to converse with the service
3 provider.

1 17. The method of claim 16 further comprising:
2 the moderator queuing requests to converse with the service provider.

1 18. The method of claim 15 further comprising:
2 ending the conversing between the first customer and the service provider.

1 19. The method of claim 12 wherein:
2 the request from the first customer to transmit to the service provider pertains to
3 transmitting a question to the service provider.

1 20. The method of claim 19 further comprising:
2 permitting the first customer to transmit the question to the service provider; and
3 receiving payment from the first customer for transmitting the question to the
4 service provider.

1 21. The method of claim 19 further comprising:
2 receiving a request from the second customer to transmit a question to the
3 service provider.

1 22. The method of claim 21 further comprising:
2 the moderator queuing requests to transmit questions to the service provider.

- 1 23. The method of claim 12 further comprising:
- 2 removing the first customer from the link between the first customer and the
- 3 service provider, the removing performed by the moderator.

1 24. A system for connecting a plurality of customers to a service provider
2 comprising:

3 a first logic unit configured to display a service provider rate for listening to a
4 service provider and to provide a real-time indication of whether the service provider is
5 available;

6 a second logic unit coupled to the first logic unit, the second logic unit configured
7 to receive a request from a first customer to communicate with the service provider, the
8 second logic unit further configured to connect the first customer to the service provider
9 through a link capable of transmitting from the service provider to the first customer;

10 the second logic unit further configured to receive a request from a second
11 customer to communicate with the service provider, and the second logic unit further
12 configured to connect the second customer to the service provider through a link
13 capable of transmitting from the service provider to the second customer while the first
14 customer is connected to the service provider; and

15 a third logic unit coupled to the second logic unit, the third logic unit configured to
16 bill the first customer automatically based on the time during which the link to the first
17 customer is maintained, and the third logic unit further configured to bill the second
18 customer automatically based on the time during which the link to the second customer
19 is maintained.

1 25. The system of claim 24 wherein:
2 the link from the service provider to the first customer is configured to transmit
3 from the first customer to the service provider.

1 26. The system of claim 24 wherein:
2 an intermediary including the first logic unit, the second logic unit and the third
3 logic unit, the first customer paying the intermediary and the second customer paying
4 the intermediary.

005000-005000
1 27. The system of claim 26 wherein:
2 the intermediary having a set of service providers including the service provider,
3 the set of service providers accessible by the first logic unit; and
4 the first logic unit configured to receive a choice by the first customer of the
5 service provider from the set of service providers, the first logic unit configured to
6 display the service provider in response to the choice.

1 28. The system of claim 27 wherein:
2 the link from the service provider to the first customer is implemented through
3 use of the internet or through use of telephone connections.

1 29. The system of claim 27 wherein:
2 the link from the service provider to the first customer is configured to transmit
3 from the first customer to the service provider.

1 30. The system of claim 29 further comprising:
2 a fourth logic unit coupled to the second logic unit, the fourth logic unit
3 configured to moderate transmissions from the service provider and transmissions from
4 the first customer.

1 31. The system of claim 30 wherein:
2 the fourth logic unit is controlled by the service provider.

1 32. The system of claim 30 wherein:
2 the fourth logic unit is controlled by a moderator.

1 33. The system of claim 32 wherein:
2 the fourth logic unit is configured to receive a request from the first customer to
3 transmit to the service provider.

1 34. The system of claim 33 wherein:

2 the fourth logic unit is configured to receive a grant of the request from the first
3 customer to transmit to the service provider upon payment by the first customer to the
4 intermediary, the fourth logic unit is configured to permit transmission from the first
5 customer to the service provider upon receipt of the grant.

1 35. The system of claim 33 wherein:

2 the request from the first customer to transmit to the service provider pertains to
3 conversing with the service provider.

1 36. The system of claim 35 wherein:

2 the fourth logic unit is configured to permit the first customer to converse with the
3 service provider; and

4 the intermediary is configured to receive payment from the first customer based
5 on a duration of the conversing.

1 37. The system of claim 35 wherein:

2 the fourth logic unit is configured to receive a request from the second customer
3 to converse with the service provider.

1 38. The system of claim 37 wherein:
2 the fourth logic unit is configured to maintain a queue of requests to converse
3 with the service provider, the fourth logic unit is configured to adjust the queue of
4 requests responsive to the moderator.

1 39. The system of claim 36 wherein:
2 the fourth logic unit is further configured to end the conversing between the first
3 customer and the service provider.

1 40. The system of claim 33 wherein:
2 the request from the first customer to transmit to the service provider pertains to
3 transmitting a question to the service provider.

1 41. The system of claim 40 wherein:
2 the fourth logic unit is configured to permit the first customer to transmit the
3 question to the service provider; and
4 the intermediary is configured to receive payment from the first customer in
5 exchange for transmitting the question to the service provider.

1 42. The system of claim 40 wherein:
2 the fourth logic unit is configured to receive a request from the second customer
3 to transmit a question to the service provider.

1 43. The system of claim 42 wherein:
2 the fourth logic unit is configured to maintain a queue of requests to converse
3 with the service provider, the fourth logic unit is configured to adjust the queue of
4 requests responsive to the moderator.

1 44. The system of claim 33 wherein:
2 the fourth logic unit further is configured to remove the first customer from the
3 link between the first customer and the service provider, the fourth logic unit is
4 configured to remove the first customer from the link responsive to the moderator.

1 45. The system of claim 24 wherein:
2 the link from the service provider to the first customer is implemented through
3 use of the internet.

1 46. The system of claim 24 wherein:
2 the link from the service provider to the first customer is implemented through
3 use of telephone lines.

1 47. A machine-readable medium embodying instructions, the instructions for
2 execution by a processor, execution of the instructions by the processor causing the
3 processor to perform a method comprising:

4 displaying a service provider and a service provider rate for listening to the
5 service provider and a real-time indication of whether the service provider is available;

6 receiving a request from a first customer to communicate with the service
7 provider;

8 connecting the first customer to the service provider through a link capable of
9 transmitting from the service provider to the first customer;

10 receiving a request from a second customer to communicate with the service
11 provider; and

12 connecting the second customer to the service provider through a link capable of
13 transmitting from the service provider to the second customer while the first customer is
14 connected to the service provider;

15 billing the first customer automatically based on the time during which the link to
16 the first customer is maintained; and

17 billing the second customer automatically based on the time during which the link
18 to the second customer is maintained.

1 48. The machine-readable medium of claim 47 further embodying instructions,
2 the instructions causing the processor to perform the method wherein:
3 the first customer paying an intermediary and the second customer paying the
4 intermediary, the intermediary receiving the requests, the intermediary connecting the
5 service provider to the first customer, the intermediary connecting the service provider
6 to the second customer, the intermediary performing the billing.

1 49. The machine-readable medium of claim 48 further embodying instructions,
2 the instructions causing the processor to perform the method wherein:
3 the intermediary having a set of service providers including the service provider;
4 and
5 the intermediary performing the displaying in response to a choice by the first
6 customer of the service provider from the set of service providers.

1 50. The machine-readable medium of claim 49 further embodying instructions,
2 the instructions causing the processor to perform the method wherein:
3 the link from the service provider to the first customer is implemented through
4 use of the internet or through use of telephone connections.

1 51. The machine-readable medium method of claim 49 wherein:
2 the link from the service provider to the first customer is configured to transmit
3 from the first customer to the service provider.

1 52. The machine-readable medium of claim 51 further embodying instructions,
2 the instructions causing the processor to perform the method further comprising:
3 moderating transmissions from the service provider and transmissions from the
4 first customer.

1 53. The machine-readable medium of claim 52 further embodying instructions,
2 the instructions causing the processor to perform the method wherein:
3 the moderating is performed by the service provider.

1 54. The machine-readable medium of claim 52 further embodying instructions,
2 the instructions causing the processor to perform the method wherein:
3 the moderating is performed by a moderator.

1 55. The machine-readable medium of claim 54 further embodying instructions,
2 the instructions causing the processor to perform the method further comprising:
3 the moderator receiving a request from the first customer to transmit to the
4 service provider.

1 56. The machine-readable medium of claim 55 further embodying instructions,
2 the instructions causing the processor to perform the method further comprising:
3 the moderator granting the request from the first customer to transmit to the
4 service provider upon payment by the first customer to the intermediary.

1 57. The machine-readable medium of claim 55 further embodying instructions,
2 the instructions causing the processor to perform the method further comprising:
3 receiving a request from the second customer to transmit to the service provider.

1 58. The machine-readable medium of claim 57 further embodying instructions,
2 the instructions causing the processor to perform the method further comprising:
3 the moderator queuing requests to transmit to the service provider.

1 59. The machine-readable medium of claim 56 further embodying instructions,
2 the instructions causing the processor to perform the method further comprising:
3 ending the transmitting from the first customer to the service provider.

1 60. The machine-readable medium of claim 54 further embodying instructions,
2 the instructions causing the processor to perform the method further comprising:
3 removing the first customer from the link between the first customer and the
4 service provider, the removing performed by the moderator.

1 61. A system comprising:

2 means for displaying a service provider and a service provider rate for listening
3 to the service provider and a real-time indication of whether the service provider is
4 available;

5 means for receiving a request from a first customer to communicate with the
6 service provider;

7 means for connecting the first customer to the service provider through a link
8 capable of transmitting from the service provider to the first customer;

9 means for receiving a request from a second customer to communicate with the
10 service provider; and

11 means for connecting the second customer to the service provider through a link
12 capable of transmitting from the service provider to the second customer while the first
13 customer is connected to the service provider;

14 means for billing the first customer automatically based on the time during which
15 the link to the first customer is maintained; and

16 means for billing the second customer automatically based on the time during
17 which the link to the second customer is maintained.

1 62. The system of claim 61 wherein:

2 the link from the service provider to the first customer is configured to transmit
3 from the first customer to the service provider.

1 63. The system of claim 62 wherein:
2 the means for displaying having a set of service providers including the service
3 provider; and
4 the means for displaying performing the displaying in response to a choice by the
5 first customer of the service provider from the set of service providers.

1 64. The system of claim 63 wherein:
2 the link from the service provider to the first customer is implemented through
3 use of the internet or through use of telephone connections.

1 65. The system of claim 63 wherein:
2 the link from the service provider to the first customer is configured to transmit
3 from the first customer to the service provider.

1 66. The system of claim 63 further comprising:
2 means for moderating transmissions from the service provider and transmissions
3 from the first customer.

1 67. The system of claim 66 wherein:
2 the means for moderating is configured to perform responsive to the service
3 provider.

1 68. The system of claim 66 wherein:
2 the means for moderating is configured to perform responsive to a moderator.

1 69. The system of claim 68 wherein:
2 the means for moderating is configured to receive a request from the first
3 customer to transmit to the service provider.

1 70. The system of claim 69 wherein:
2 the moderator granting the request from the first customer to transmit to the
3 service provider, the means for moderating permitting the first customer to transmit to
4 the service provider responsive to the moderator granting the request.

1 71. The system of claim 70 wherein:
2 the means for moderating is configured to receive a request from the second
3 customer to transmit to the service provider.

1 72. The system of claim 71 wherein:
2 the means for moderating is configured to queue requests to transmit to the
3 service provider.

1 73. The system of claim 70 wherein:
2 the means for moderating is configured to end the conversing between the first
3 customer and the service provider responsive to the moderator.

1 74. The system of claim 68 wherein:
2 the means for moderating is configured to remove the first customer from the link
3 between the first customer and the service provider, the removing performed
4 responsive to the moderator.

004704.P004

1 75. A system for connecting a plurality of customers to a service provider
2 comprising:
3 a communications interface; and
4 a controller computer coupled to the communications interface having:
5 a first logic unit configured to display a service provider rate for listening to a
6 service provider and to provide a real-time indication of whether the service provider is
7 available;
8 a second logic unit coupled to the first logic unit, the second logic unit configured
9 to receive a request from a first customer to communicate with the service provider, the
10 second logic unit further configured to connect the first customer to the service provider
11 through a link capable of transmitting from the service provider to the first customer;
12 the second logic unit further configured to receive a request from a second
13 customer to communicate with the service provider, and the second logic unit further
14 configured to connect the second customer to the service provider through a link
15 capable of transmitting from the service provider to the second customer while the first
16 customer is connected to the service provider; and
17 a third logic unit coupled to the second logic unit, the third logic unit configured to
18 bill the first customer automatically based on the time during which the link to the first
19 customer is maintained, and the third logic unit further configured to bill the second
20 customer automatically based on the time during which the link to the second customer
21 is maintained.

1 76. The system of claim 75 wherein:

2 the link from the service provider to the first customer is configured to transmit
3 from the first customer to the service provider.

1 77. The system of claim 76 wherein:

2 the system having a set of service providers including the service provider, the
3 set of service providers accessible by the first logic unit; and
4 the first logic unit is configured to receive a choice by the first customer of the
5 service provider from the set of service providers, the first logic unit is configured to
6 display the service provider in response to the choice.

1 78. The system of claim 77 wherein:

2 the link from the service provider to the first customer is implemented through
3 use of the internet or through use of telephone connections.

1 79. The system of claim 77 wherein:

2 the link from the service provider to the first customer configured to transmit from
3 the first customer to the service provider.

1 80. The system of claim 79 wherein:
2 the controller computer further having a fourth logic unit coupled to the second
3 logic unit, the fourth logic unit configured to moderate transmissions from the service
4 provider and transmissions from the first customer.

1 81. The system of claim 80 wherein:
2 the fourth logic unit is controlled by the service provider.

1 82. The system of claim 80 wherein:
2 the fourth logic unit is controlled by a moderator.

1 83. The system of claim 82 wherein:
2 the fourth logic unit is configured to receive a request from the first customer to
3 transmit to the service provider.

1 84. The system of claim 83 wherein:
2 the fourth logic unit is configured to receive a grant of the request from the first
3 customer to transmit to the service provider upon payment by the first customer to the
4 system, the fourth logic unit is configured to permit transmission from the first customer
5 to the service provider upon receipt of the grant.

1 85. The system of claim 83 wherein:
2 the request from the first customer to transmit to the service provider pertains to
3 conversing with the service provider.

1 86. The system of claim 85 wherein:
2 the fourth logic unit is configured to permit the first customer to converse with the
3 service provider; and
4 the system is configured to receive payment from the first customer based on a
5 duration of the conversing.

1 87. The system of claim 85 wherein:
2 the fourth logic unit is configured to receive a request from the second customer
3 to converse with the service provider.

1 88. The system of claim 87 wherein:
2 the fourth logic unit is configured to maintain a queue of requests to converse
3 with the service provider, the fourth logic unit is configured to adjust the queue of
4 requests responsive to the moderator.

1 89. The system of claim 86 wherein:
2 the fourth logic unit is further configured to end the conversing between the first
3 customer and the service provider.

1 90. The system of claim 83 wherein:
2 the request from the first customer to transmit to the service provider pertains to
3 transmitting a question to the service provider.

1 91. The system of claim 90 wherein:
2 the fourth logic unit is configured to permit the first customer to transmit the
3 question to the service provider; and
4 the system is configured to receive payment from the first customer in exchange
5 for transmitting the question to the service provider.

1 92. The system of claim 90 wherein:
2 the fourth logic unit is configured to receive a request from the second customer
3 to transmit a question to the service provider.

1 93. The system of claim 92 wherein:
2 the fourth logic unit is configured to maintain a queue of requests to converse
3 with the service provider, the fourth logic unit is configured to adjust the queue of
4 requests responsive to the moderator.

1 94. The system of claim 83 wherein:
2 the fourth logic unit is further configured to remove the first customer from the
3 link between the first customer and the service provider, the fourth logic unit is
4 configured to remove the first customer from the link responsive to the moderator.

1 95. The system of claim 75 wherein:
2 the link from the service provider to the first customer is implemented through
3 use of the internet.

1 96. The system of claim 75 wherein:
2 the link from the service provider to the first customer is implemented through
3 use of telephone lines.

ABSTRACT OF THE DISCLOSURE

A method and apparatus for implementing group calling is disclosed. In one embodiment, the method includes displaying a service provider, a service provider rate for communicating with the service provider, and a real-time indication of whether the service provider is available. The method further includes receiving a request from a first customer to communicate with the service provider and connecting the first customer to the service provider through a link capable of transmitting from the service provider to the first customer. The method also further includes receiving a request from a second customer to communicate with the service provider and connecting the second customer to the service provider through a link capable of transmitting from the service provider to the second customer while the first customer is coupled to the service provider. The method also includes billing the first customer automatically based on the time during which the link to the first customer is maintained; and billing the second customer automatically based on the time during which the link to the second customer is maintained. The method may further include connecting the service provider to a plurality of customers.

In an alternative embodiment, a system may include logic blocks suitable for performing the method described above or for otherwise implementing a system for connecting a plurality of customers to a service provider. Furthermore, such a system may be suitable for interaction with a moderator and/or an intermediary. Moreover, such a system may include a communications interface and a controller computer.

Figure 1

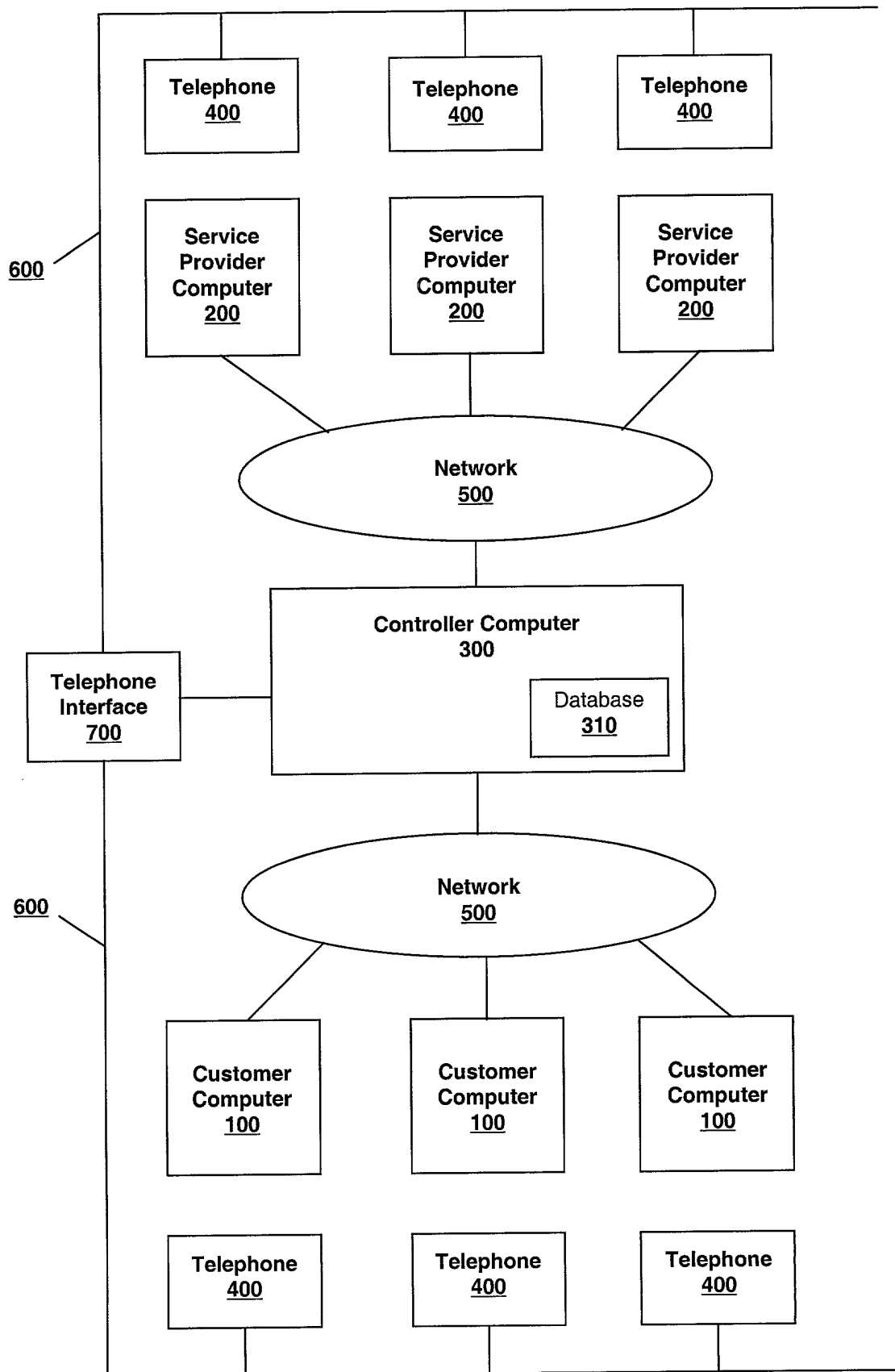
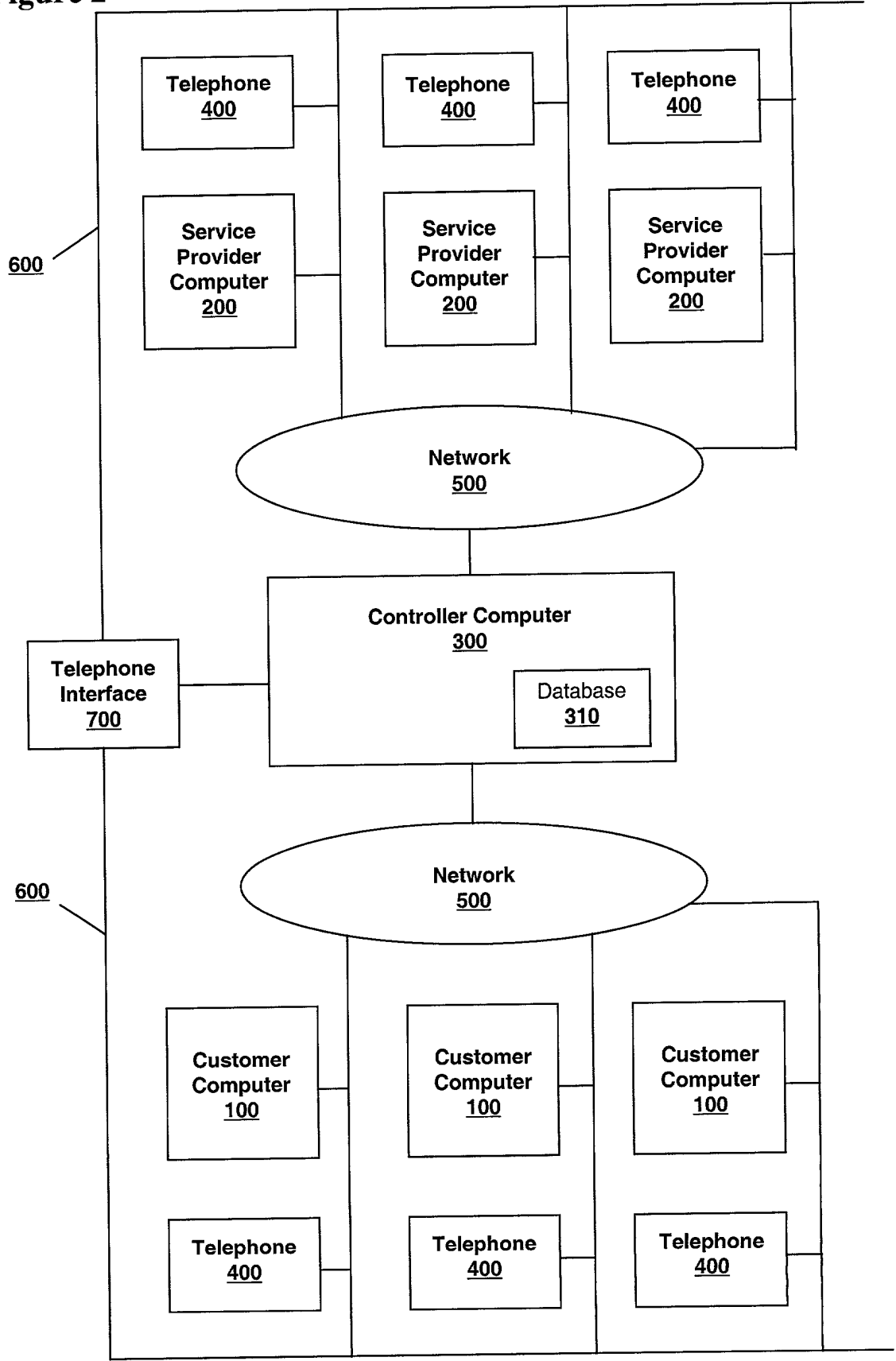


Figure 2



1000

1422

1421

1030

1050

1040

1055

1010

1020

1045

The screenshot shows a web browser window with the Keen.com logo and navigation links. The profile for 'French Tutor' is displayed, including a profile picture, a description, rating information, and verified credentials. The profile picture is labeled 1030. The description is labeled 1010. The rating information is labeled 1020. The verified credentials are labeled 1045. The profile picture is also labeled 1050. The profile picture is also labeled 1040. The profile picture is also labeled 1055.

"French Tutor"
Former Fulbright Scholar can help you with your conversational skills, accent and quick translation needs.

Rating Information

Rating	***** (Out of 5)
Number of Feedback Ratings	3
Number of Answered Calls on Keen.com	63
Number of Unanswered Calls on Keen.com	3

Verified Credentials
Backgrounds Online verified the following information on Friday, March 10, 2000

Education

School / Location	Yale University, New Haven Connecticut, CT
Degree Earned	Masters of Arts
Major	International Relations
Graduation Date	6/1989
School / Location	Macalester College, Saint Paul, MN
Degree Earned	Bachelor of Arts
Major	History, French History
Graduation Date	6/1986

Rate*: 25 cents
(per minute)

Language: Not Set

Send Keen Mail

Figure 3

1500



Keen.com is calling your phone right now.

If you use the same line to go online and to make phone calls, please hang up your online connection now.

When you answer, please press 1 on your touch-tone keypad to accept.

[About Keen.com](#) | [Privacy](#) | [Join our Affiliate Program](#)
Use of this Web site constitutes acceptance of the Keen.com [Member Agreement](#).
©1998-2000 Keen.com, Inc. All Rights Reserved

TRUSTe
site privacy statement
Satisfaction Guarantee

VeriSign
Secure Site
do not track

Figure 4

```

graph TD
    1210[Select Service Provider  
1210] --> 1220[Establish Link  
with Service Provider  
1220]
    1220 --> 1230[Request Question of  
Service Provider  
1230]
    1230 --> 1240[Establish/Enable Two-way  
Communication with  
Service Provider  
1240]
    1240 --> 1250[Ask Question of  
Service Provider  
1250]

```

Figure 5

000000" 9055E960

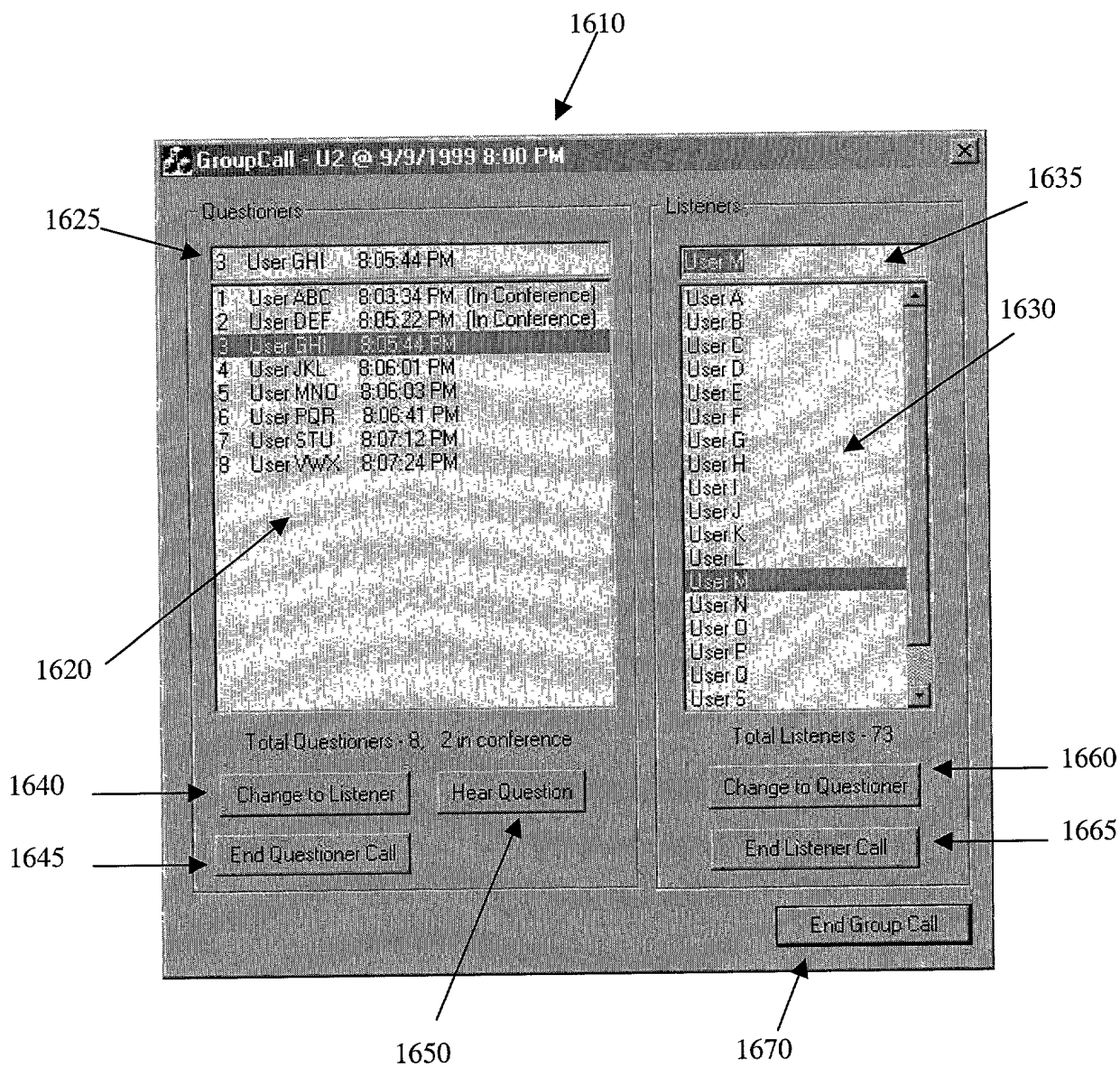


Figure 6

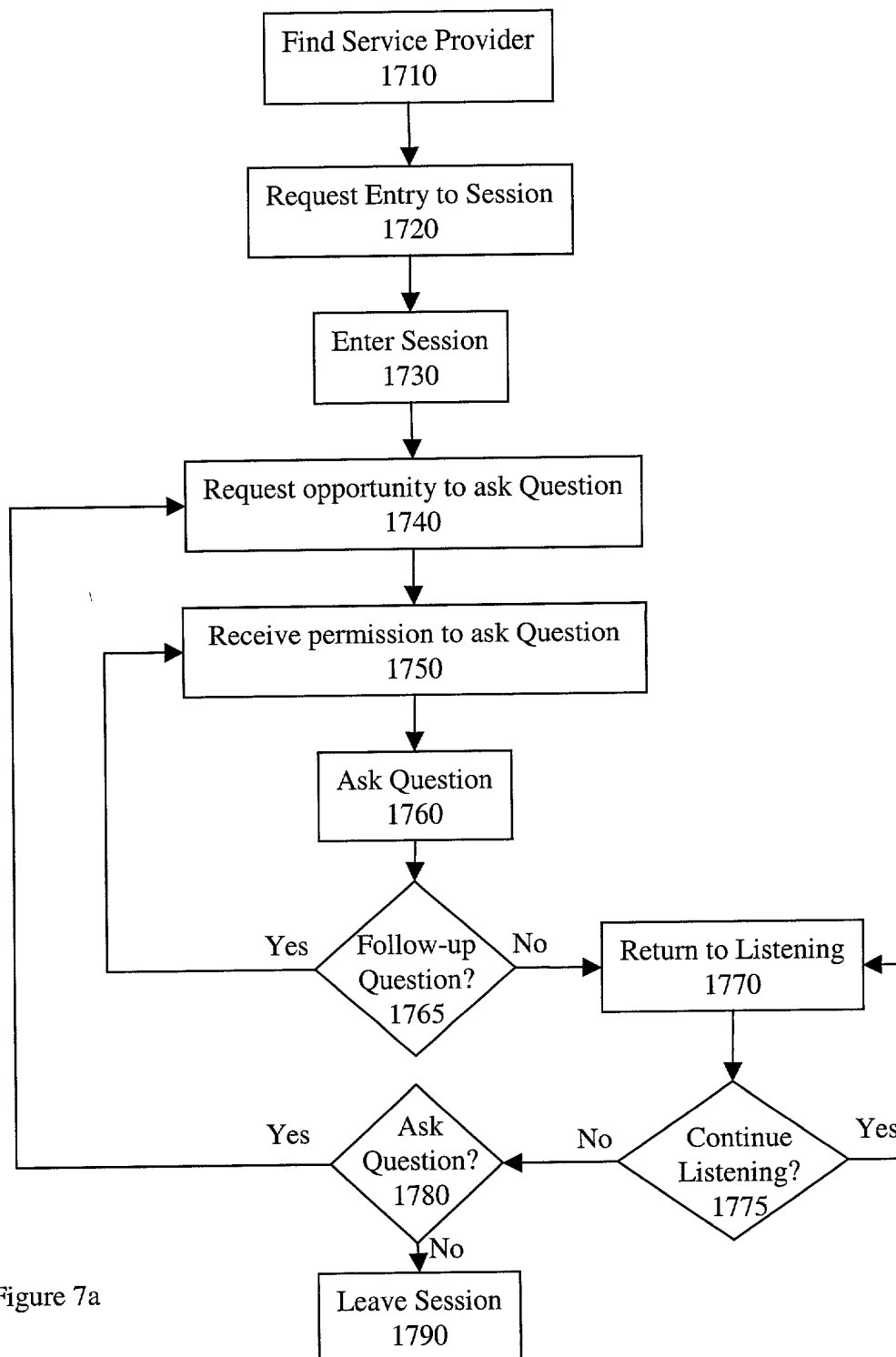


Figure 7a

Find Expert 1910

Request Entry to Session

Await Entry to Session
1925

Request to Converse 1930

Await Permission to Converse
1935

Converse
1940

No

End
Conversation?
1950

Yes

```
graph TD; A[Listen?] -- Yes --> B[1960]; A -- No --> C[No]
```

No

Yes

Quit Session
1995

Listen
1970

No

End
Listening?
1980

☒ Yes

Yes

Converse?
1990

No

Figure 7b

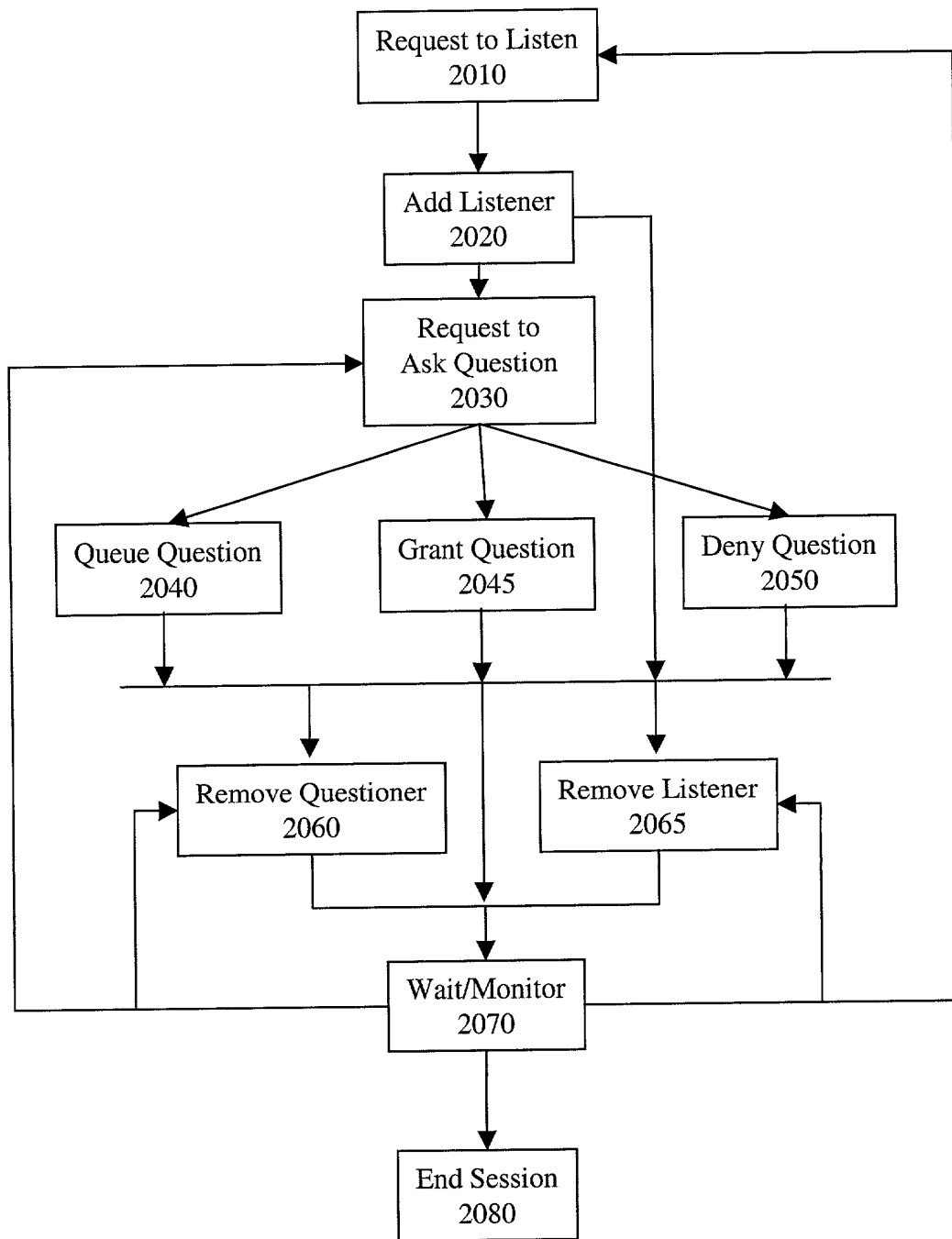


Figure 8

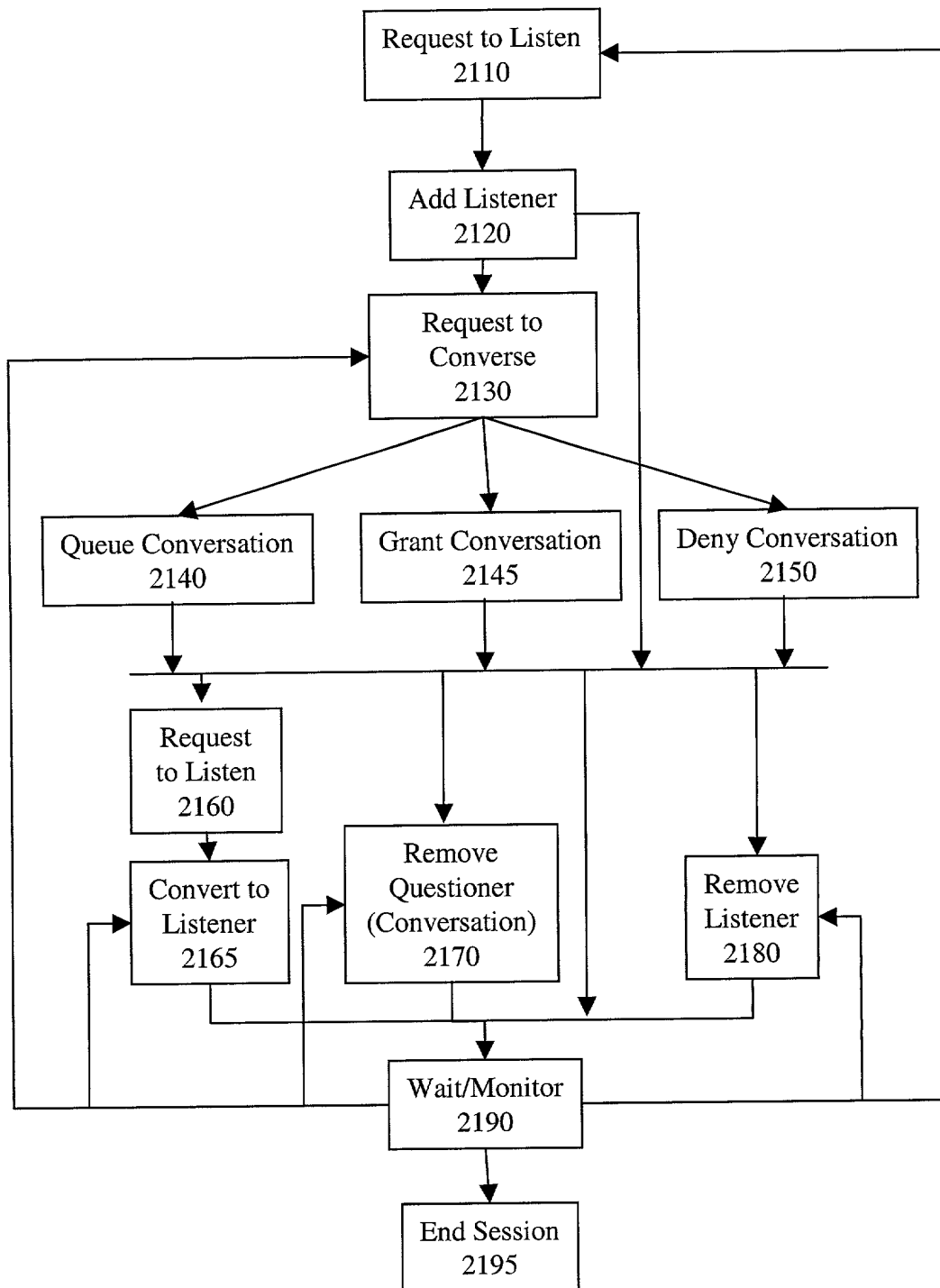


Figure 9

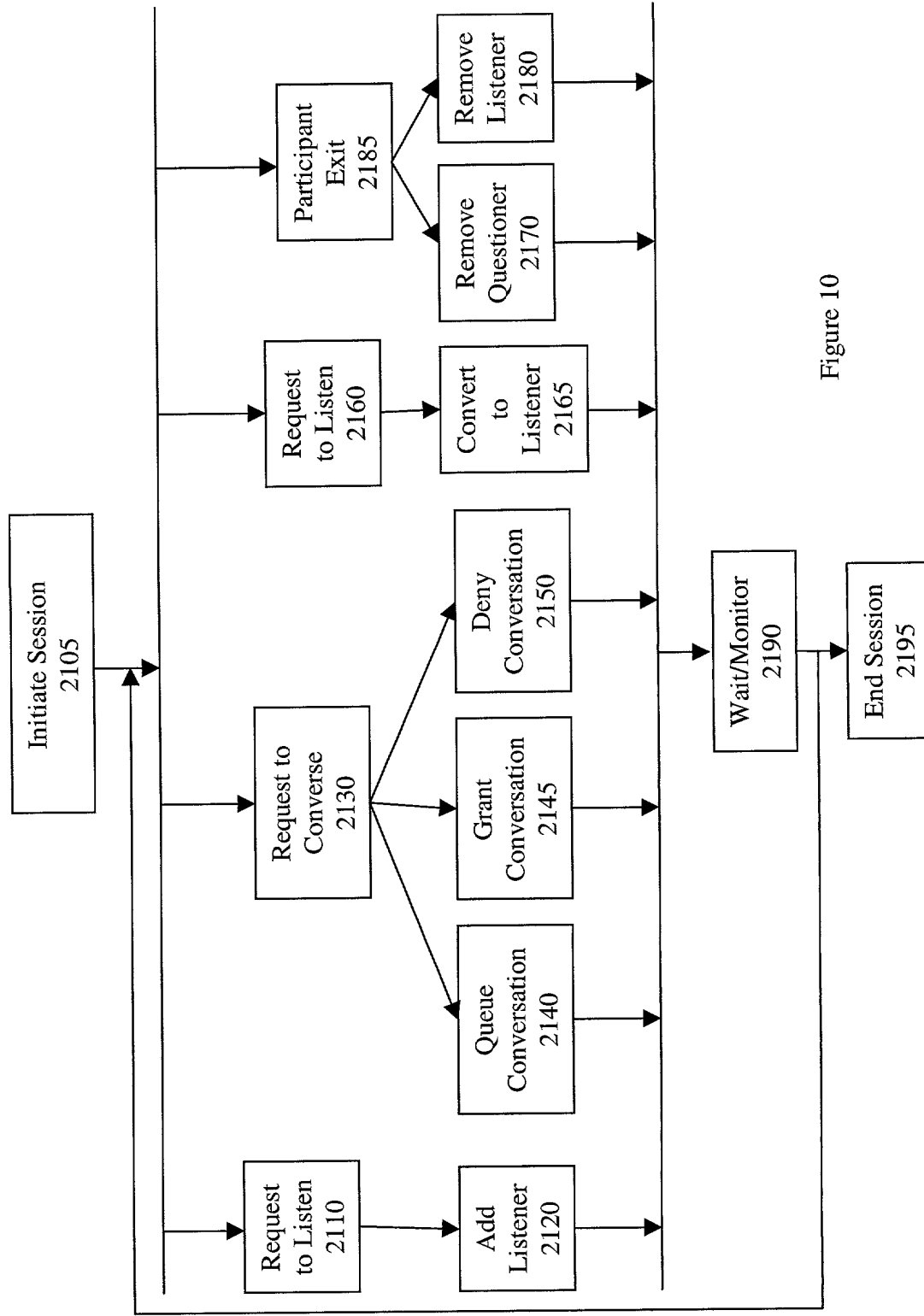


Figure 10

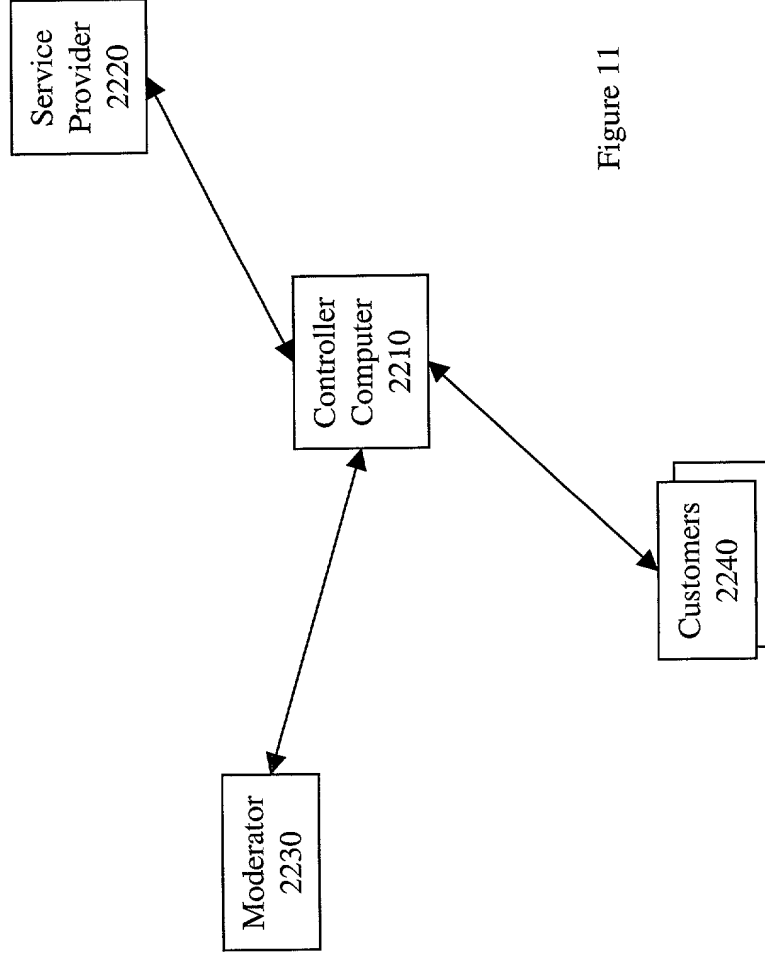


Figure 11

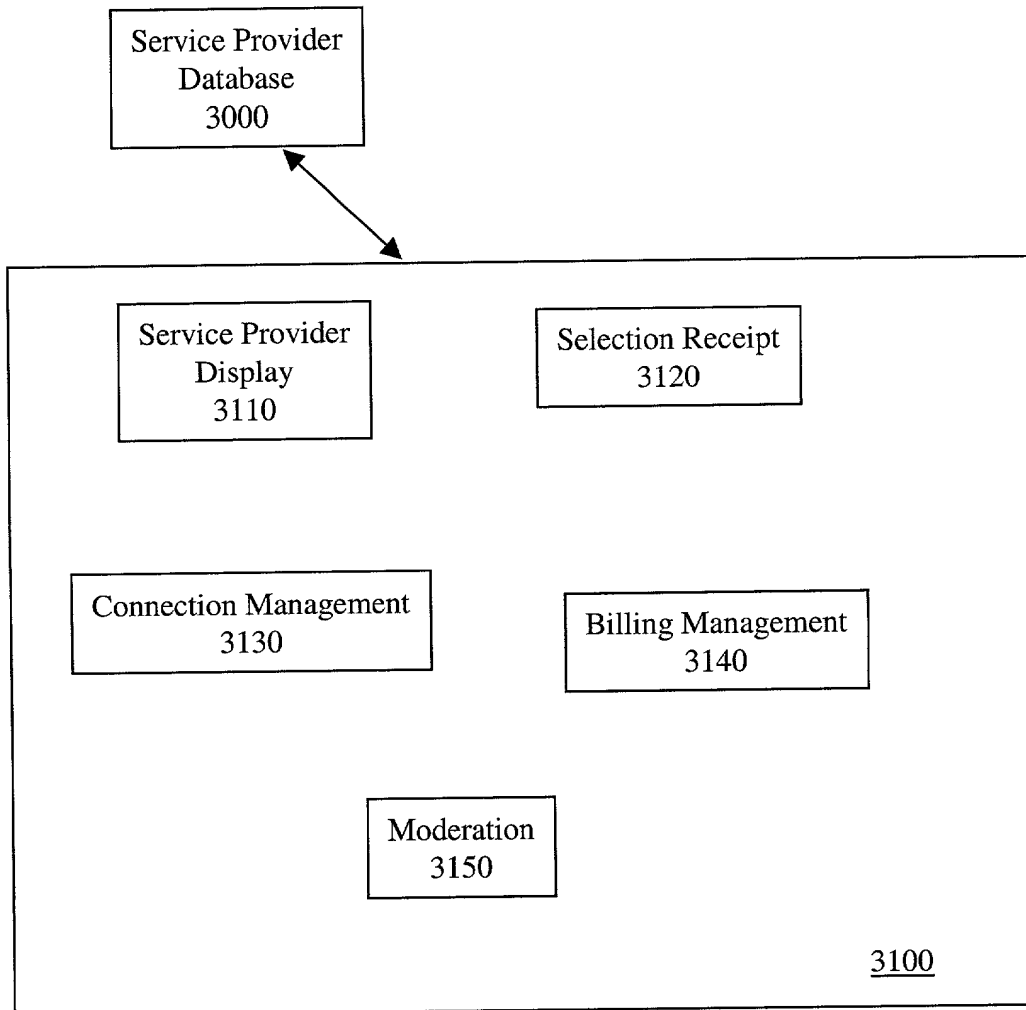


Figure 12

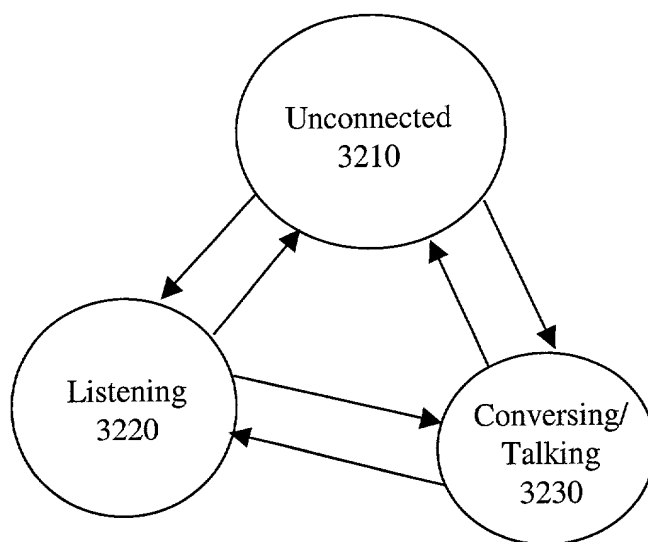


Figure 13

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below, next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD AND APPRATUS FOR PROVIDING GROUP CALLS VIA THE INTERNET

the specification of which

 X is attached hereto.
 was filed on _____ as
United States Application Number _____
or PCT International Application Number _____
and was amended on _____.
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, and that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority
Claimed

_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<u>Yes</u>	<u>No</u>
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<u>Yes</u>	<u>No</u>
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<u>Yes</u>	<u>No</u>

I hereby claim the benefit under title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below:

_____ (Application Number)	_____ Filing Date
_____ (Application Number)	_____ Filing Date

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

_____ (Application Number)	_____ Filing Date	_____ (Status -- patented, pending, abandoned)
_____ (Application Number)	_____ Filing Date	_____ (Status -- patented, pending, abandoned)

I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send correspondence to Glenn E. Von Tersch, BLAKELY, SOKOLOFF, TAYLOR &
(Name of Attorney or Agent)
ZAFMAN LLP, 12400 Wilshire Boulevard 7th Floor, Los Angeles, California 90025 and direct
telephone calls to Glenn E. Von Tersch, (408) 720-8300.
(Name of Attorney or Agent)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor Scott Faber

Inventor's Signature Scott Faber Date 8. August. 2000

Residence San Francisco, California Citizenship U.S.A.
(City, State) (Country)

Post Office Address 2060 Pacific Avenue, #307
San Francisco, CA 94109

Full Name of Second/Joint Inventor Sean Van der Linden

Inventor's Signature Sean Van der Linden Date 8. Aug. 2000

Residence San Francisco, California Citizenship Commonwealth of Australia
(City, State) (Country)

Post Office Address 2090 Pacific Avenue, # 602
San Francisco, CA 94109

Full Name of Third/Joint Inventor _____

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country)

Post Office Address _____

Full Name of Fourth/Joint Inventor _____

Inventor's Signature _____ Date _____

Residence _____ Citizenship _____
(City, State) (Country)

Post Office Address _____

APPENDIX A

William E. Alford, Reg. No. 37,764; Farzad E. Amini, Reg. No. P42,261; Aloysius T. C. AuYeung, Reg. No. 35,432; William Thomas Babbitt, Reg. No. 39,591; Carol F. Barry, Reg. No. 41,600; Jordan Michael Becker, Reg. No. 39,602; Lisa N. Benado, Reg. No. 39,995; Bradley J. Berezna, Reg. No. 33,474; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 46,149; Gregory D. Caldwell, Reg. No. 39,926; Andrew C. Chen, Reg. No. 43,544; Thomas M. Coester, Reg. No. 39,637; Donna Jo Coningsby, Reg. No. 41,684; Florin Corie, Reg. No. 46,244; Dennis M. deGuzman, Reg. No. 41,702; Stephen M. De Klerk, Reg. No. P46,503; Michael Anthony DeSanctis, Reg. No. 39,957; Daniel M. De Vos, Reg. No. 37,813; Robert Andrew Diehl, Reg. No. 40,992; Sanjeet Dutta, Reg. No. P46,145; Matthew C. Fagan, Reg. No. 37,542; Tarek N. Fahmi, Reg. No. 41,402; George Fountain, Reg. No. 37,374; Paramita Ghosh, Reg. No. 42,806; James Y. Go, Reg. No. 40,621; James A. Henry, Reg. No. 41,064; Libby N. Ho, Reg. No. P46,774; Willmore F. Holbrow III, Reg. No. P41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W. Hoover II, Reg. No. 32,992; Eric S. Hyman, Reg. No. 30,139; William W. Kidd, Reg. No. 31,772; Sang Hui Kim, Reg. No. 40,450; Walter T. Kim, Reg. No. 42,731; Eric T. King, Reg. No. 44,188; Erica W. Kuo, Reg. No. 42,775; George Brian Leavell, Reg. No. 45,436; Kurt P. Leyendecker, Reg. No. 42,799; Gordon R. Lindeen III, Reg. No. 33,192; Jan Carol Little, Reg. No. 41,181; Joseph Lutz, Reg. No. 43,765; Michael J. Mallie, Reg. No. 36,591; Andre L. Marais, under 37 C.F.R. § 10.9(b); Paul A. Mendonsa, Reg. No. 42,879; Clive D. Menezes, Reg. No. 45,493; Chun M. Ng, Reg. No. 36,878; Thien T. Nguyen, Reg. No. 43,835; Thinh V. Nguyen, Reg. No. 42,034; Dennis A. Nicholls, Reg. No. 42,036; Daniel E. Ovanezian, Reg. No. 41,236; Kenneth B. Paley, Reg. No. 38,989; Marina Portnova, Reg. No. P45,750; William F. Ryann, Reg. No. 44,313; James H. Salter, Reg. No. 35,668; William W. Schaal, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Jeffrey Sam Smith, Reg. No. 39,377; Maria McCormack Sobrino, Reg. No. 31,639; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Vincent P. Tassinari, Reg. No. 42,179; Edwin H. Taylor, Reg. No. 25,129; John F. Travis, Reg. No. 43,203; Joseph A. Twarowski, Reg. No. 42,191; Tom Van Zandt, Reg. No. 43,219; Lester J. Vincent, Reg. No. 31,460; Glenn E. Von Tersch, Reg. No. 41,364; John Patrick Ward, Reg. No. 40,216; Mark L. Watson, Reg. No. P46,322; Thomas C. Webster, Reg. No. P46,154; Steven D. Yates, Reg. No. 42,242; and Norman Zafman, Reg. No. 26,250; my patent attorneys, and Firasat Ali, Reg. No. 45,715; and Justin M. Dillon, Reg. No. 42,486; my patent agents, of BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800, and James R. Thein, Reg. No. 31,710, my patent attorney with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

APPENDIX B

Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.